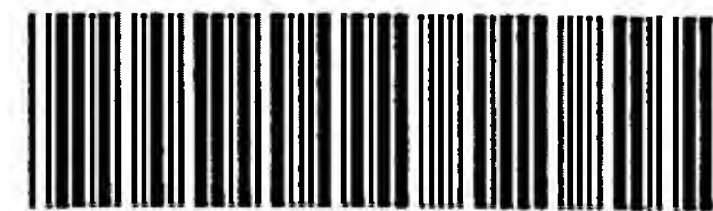


## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 110/593,430  
Source: IFWP  
Date Processed by STIC: 09/27/2006

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IFWP

## RAW SEQUENCE LISTING

DATE: 09/27/2006

PATENT APPLICATION: US/10/593,430

TIME: 10:00:22

Input Set : A:\4240-149 Sequence Listing.txt

Output Set: N:\CRF4\09272006\J593430.raw

3 <110> APPLICANT: PARK, Yoon.Jeong  
 4 CHUNG, Chong-Pyoung  
 5 LEE, Seung Jin  
 6 RHEE, Sang Hoon  
 8 <120> TITLE OF INVENTION: Bone Graft and Scaffolding Materials Immobilized with  
 9 Osteogenesis Enhancing Peptides on the Surface  
 11 <130> FILE REFERENCE: 4240-149  
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/593,430  
 14 <141> CURRENT FILING DATE: 2006-09-19  
 16 <150> PRIOR APPLICATION NUMBER: PCT/KR2005/000801  
 17 <151> PRIOR FILING DATE: 2005-03-18  
 19 <150> PRIOR APPLICATION NUMBER: 10-2004-0019010  
 20 <151> PRIOR FILING DATE: 2004-03-19  
 22 <160> NUMBER OF SEQ ID NOS: 69  
 24 <170> SOFTWARE: PatentIn version 3.3  
 26 <210> SEQ ID NO: 1  
 27 <211> LENGTH: 7  
 28 <212> TYPE: PRT  
 29 <213> ORGANISM: Artificial  
 31 <220> FEATURE:  
 32 <223> OTHER INFORMATION: RGD containing peptide  
 34 <400> SEQUENCE: 1  
 36 Cys Gly Gly Arg Gly Asp Ser  
 37 1 5  
 40 <210> SEQ ID NO: 2  
 41 <211> LENGTH: 11  
 42 <212> TYPE: PRT  
 43 <213> ORGANISM: Artificial  
 45 <220> FEATURE:  
 46 <223> OTHER INFORMATION: RGD containing peptide  
 48 <400> SEQUENCE: 2  
 50 Val Ala Cys Asp Cys Arg Gly Asp Cys Phe Cys  
 51 1 5 10  
 54 <210> SEQ ID NO: 3  
 55 <211> LENGTH: 16  
 56 <212> TYPE: PRT  
 57 <213> ORGANISM: Artificial  
 59 <220> FEATURE:  
 60 <223> OTHER INFORMATION: Partial peptide of BMP-2  
 62 <400> SEQUENCE: 3  
 64 Ala Lys His Lys Gln Arg Lys Arg Leu Lys Ser Ser Cys Lys Arg His  
 65 1 5 10 15  
 68 <210> SEQ ID NO: 4

## RAW SEQUENCE LISTING

DATE: 09/27/2006

PATENT APPLICATION: US/10/593,430

TIME: 10:00:22

Input Set : A:\4240-149 Sequence Listing.txt

Output Set: N:\CRF4\09272006\J593430.raw

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69 <211> LENGTH: 14
70 <212> TYPE: PRT
71 <213> ORGANISM: Artificial
73 <220> FEATURE:
74 <223> OTHER INFORMATION: Partial peptide of BMP-4
76 <400> SEQUENCE: 4
78 Cys Ser Pro Lys His His Pro Gln Arg Ser Arg Lys Lys Asn
79 1          5          10
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83 <211> LENGTH: 13
84 <212> TYPE: PRT
85 <213> ORGANISM: Artificial
87 <220> FEATURE:
88 <223> OTHER INFORMATION: Partial peptide of BMP-6
90 <400> SEQUENCE: 5
92 Cys Ser Ser Arg Lys Lys Asn Lys Asn Cys Arg Arg His
93 1          5          10
96 <210> SEQ ID NO: 6
97 <211> LENGTH: 16
98 <212> TYPE: PRT
99 <213> ORGANISM: Artificial
101 <220> FEATURE:
102 <223> OTHER INFORMATION: Partial peptide of BMP-2
104 <400> SEQUENCE: 6
106 Ser Asp Val Gly Trp Asn Asp Trp Ile Val Ala Pro Pro Gly Tyr His
107 1          5          10          15
110 <210> SEQ ID NO: 7
111 <211> LENGTH: 24
112 <212> TYPE: PRT
113 <213> ORGANISM: Artificial
115 <220> FEATURE:
116 <223> OTHER INFORMATION: Partial peptide of BMP-2
118 <400> SEQUENCE: 7
120 Cys Pro Phe Pro Leu Ala Asp His Leu Ser Thr Asn His Ala Ile Val
121 1          5          10          15
124 Gln Thr Leu Val Asn Ser Val Asn
125          20
128 <210> SEQ ID NO: 8
129 <211> LENGTH: 20
130 <212> TYPE: PRT
131 <213> ORGANISM: Artificial
133 <220> FEATURE:
134 <223> OTHER INFORMATION: Partial peptide of BMP-2
136 <400> SEQUENCE: 8
138 Lys Ile Pro Lys Ala Cys Cys Val Pro Thr Glu Leu Ser Ala Ile Ser
139 1          5          10          15
142 Met Leu Tyr Leu
143          20
146 <210> SEQ ID NO: 9

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## RAW SEQUENCE LISTING

DATE: 09/27/2006

PATENT APPLICATION: US/10/593,430

TIME: 10:00:22

Input Set : A:\4240-149 Sequence Listing.txt

Output Set: N:\CRF4\09272006\J593430.raw

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147 <211> LENGTH: 18
148 <212> TYPE: PRT
149 <213> ORGANISM: Artificial
151 <220> FEATURE:
152 <223> OTHER INFORMATION: Partial peptide of BMP-2
154 <400> SEQUENCE: 9
156 Ser Met Leu Tyr Leu Asp Glu Asn Glu Lys Val Val Leu Lys Asn Tyr
157 1          5          10          15
160 Gln Asp
164 <210> SEQ ID NO: 10
165 <211> LENGTH: 20
166 <212> TYPE: PRT
167 <213> ORGANISM: Artificial
169 <220> FEATURE:
170 <223> OTHER INFORMATION: Partial peptide of BMP-2
172 <400> SEQUENCE: 10
174 Gln Ala Lys His Lys Gln Arg Lys Arg Leu Lys Ser Ser Cys Lys Arg
175 1          5          10          15
178 His Pro Leu Tyr
179          20
182 <210> SEQ ID NO: 11
183 <211> LENGTH: 20
184 <212> TYPE: PRT
185 <213> ORGANISM: Artificial
187 <220> FEATURE:
188 <223> OTHER INFORMATION: Partial peptide of BMP-2
190 <400> SEQUENCE: 11
192 Lys Ile Pro Lys Ala Cys Cys Val Pro Thr Glu Leu Ser Ala Ile Ser
193 1          5          10          15
196 Met Leu Tyr Leu
197          20
200 <210> SEQ ID NO: 12
201 <211> LENGTH: 21
202 <212> TYPE: PRT
203 <213> ORGANISM: Artificial
205 <220> FEATURE:
206 <223> OTHER INFORMATION: Partial peptide of BMP-7
208 <400> SEQUENCE: 12
210 Ser Met Leu Tyr Leu Asp Glu Asn Glu Lys Val Val Leu Lys Asn Tyr
211 1          5          10          15
214 Gln Asp Met Val Val
215          20
218 <210> SEQ ID NO: 13
219 <211> LENGTH: 21
220 <212> TYPE: PRT
221 <213> ORGANISM: Artificial
223 <220> FEATURE:
224 <223> OTHER INFORMATION: Partial peptide of BMP-4
226 <400> SEQUENCE: 13

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## RAW SEQUENCE LISTING

DATE: 09/27/2006

PATENT APPLICATION: US/10/593,430

TIME: 10:00:22

Input Set : A:\4240-149 Sequence Listing.txt

Output Set: N:\CRF4\09272006\J593430.raw

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228 Ser Ser Ile Pro Lys Ala Cys Cys Val Pro Thr Glu Leu Ser Ala Ile
229 1          5          10          15
232 Ser Met Leu Tyr Leu
233          20
236 <210> SEQ ID NO: 14
237 <211> LENGTH: 21
238 <212> TYPE: PRT
239 <213> ORGANISM: Artificial
241 <220> FEATURE:
242 <223> OTHER INFORMATION: Partial peptide of bone sialoprotein
244 <400> SEQUENCE: 14
246 Pro Lys His His Ser Gln Arg Ala Arg Lys Lys Asn Lys Asn Cys Arg
247 1          5          10          15
250 Arg His Ser Leu Tyr
251          20
254 <210> SEQ ID NO: 15
255 <211> LENGTH: 21
256 <212> TYPE: PRT
257 <213> ORGANISM: Artificial
259 <220> FEATURE:
260 <223> OTHER INFORMATION: Partial peptide of BMP-4
262 <400> SEQUENCE: 15
264 Ser Ser Ile Pro Lys Ala Cys Cys Val Pro Thr Glu Leu Ser Ala Ile
265 1          5          10          15
268 Ser Met Leu Tyr Leu
269          20
272 <210> SEQ ID NO: 16
273 <211> LENGTH: 21
274 <212> TYPE: PRT
275 <213> ORGANISM: Artificial
277 <220> FEATURE:
278 <223> OTHER INFORMATION: Partial peptide of BMP-4
280 <400> SEQUENCE: 16
282 Ser Met Leu Tyr Leu Asp Glu Tyr Asp Lys Val Val Leu Lys Asn Tyr
283 1          5          10          15
286 Gln Glu Met Val Val
287          20
290 <210> SEQ ID NO: 17
291 <211> LENGTH: 20
292 <212> TYPE: PRT
293 <213> ORGANISM: Artificial
295 <220> FEATURE:
296 <223> OTHER INFORMATION: Partial peptide of BMP-6
298 <400> SEQUENCE: 17
300 Tyr Val Pro Lys Pro Cys Cys Ala Pro Thr Lys Leu Asn Ala Ile Ser
301 1          5          10          15
304 Val Leu Tyr Phe
305          20
308 <210> SEQ ID NO: 18

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## RAW SEQUENCE LISTING

DATE: 09/27/2006

PATENT APPLICATION: US/10/593,430

TIME: 10:00:22

Input Set : A:\4240-149 Sequence Listing.txt

Output Set: N:\CRF4\09272006\J593430.raw

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309 <211> LENGTH: 22
310 <212> TYPE: PRT
311 <213> ORGANISM: Artificial
313 <220> FEATURE:
314 <223> OTHER INFORMATION: Partial peptide of BMP-6
316 <400> SEQUENCE: 18
318 Val Ser Ser Ala Ser Asp Tyr Asn Ser Ser Glu Leu Lys Thr Ala Cys
319 1          5          10          15
322 Arg Lys His Glu Leu Tyr
323          20
326 <210> SEQ ID NO: 19
327 <211> LENGTH: 20
328 <212> TYPE: PRT
329 <213> ORGANISM: Artificial
331 <220> FEATURE:
332 <223> OTHER INFORMATION: Partial peptide of BMP-6
334 <400> SEQUENCE: 19
336 Tyr Val Pro Lys Pro Cys Cys Ala Pro Thr Lys Leu Asn Ala Ile Ser
337 1          5          10          15
340 Val Leu Tyr Phe
341          20
344 <210> SEQ ID NO: 20
345 <211> LENGTH: 24
346 <212> TYPE: PRT
347 <213> ORGANISM: Artificial
349 <220> FEATURE:
350 <223> OTHER INFORMATION: Partial peptide of BMP-6
352 <400> SEQUENCE: 20
354 Ser Val Leu Tyr Phe Asp Asp Asn Ser Asn Val Ile Leu Lys Lys Tyr
355 1          5          10          15
358 Arg Asn Met Val Val Arg Ala Cys
359          20
362 <210> SEQ ID NO: 21
363 <211> LENGTH: 20
364 <212> TYPE: PRT
365 <213> ORGANISM: Artificial
367 <220> FEATURE:
368 <223> OTHER INFORMATION: Partial sequence of BMP-7
370 <400> SEQUENCE: 21
372 Thr Val Pro Lys Pro Cys Cys Ala Pro Thr Gln Leu Asn Ala Ile Ser
373 1          5          10          15
376 Val Leu Tyr Phe
377          20
380 <210> SEQ ID NO: 22
381 <211> LENGTH: 21
382 <212> TYPE: PRT
383 <213> ORGANISM: Artificial
385 <220> FEATURE:
386 <223> OTHER INFORMATION: Partial peptide of BMP-7

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RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 09/27/2006  
 PATENT APPLICATION:    US/10/593,430      TIME: 10:00:23

Input Set : A:\4240-149 Sequence Listing.txt  
 Output Set: N:\CRF4\09272006\J593430.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
 per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27  
 Seq#:28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51  
 Seq#:52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69

**VERIFICATION SUMMARY**

DATE: 09/27/2006

PATENT APPLICATION: US/10/593,430

TIME: 10:00:23

Input Set : A:\4240-149 Sequence Listing.txt

Output Set: N:\CRF4\09272006\J593430.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application Number